



BOLTON & MENK, INC.

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Iowa Finance Authority
2015 Grand Ave.
Des Moines, Iowa 50312

RE: Proposed IJOBS Flood Mitigation Grant Application
Backflow Prevention and Pumping System
Belmond, Iowa

To whom it may concern:

As the consulting Engineer for the City of Belmond, we have reviewed the proposed design and construction of the proposed Backflow Prevention and Pumping System improvement project and find that the proposed system includes underground construction meeting state and local codes for storm sewer construction. The project consists of the installation of mechanical backflow prevention devices that do not require the use of an outside energy source. The only energy related item is associated with the lift station that will be used whenever the river is too high to allow the gravity flow of stormwater from threatened areas of the City. We propose to specify pumps that conform Energy Star® standards.

Since the proposed project does not include any building construction, it appears typical building energy codes will not apply. For example: the pumps are proposed to be submersible pumps housed inside a manhole structure. The electrical pump controls are proposed to be housed in an appropriate NEMA outdoor electrical control box mounted on a structure that ensures the controls will be weatherproof and protected from flooding.

Similarly, since this is a storm water project involving the installation of backflow prevention devices and pumping stations on the larger storm sewer outfalls, the typical LEED components associated with reducing the use of potable water or helping reuse wastewater do not apply. The proposed use of concrete manhole structures, backflow prevention devices and pumps limit the possibility finding LEED applications. Although this is a significant proposal designed to prevent future damages, there is no new building application where LEED possibilities typically apply. We will propose energy efficient pumps and recycled components if any exist. Hence, there are very few opportunities to implement LEED components associated with this proposed improvement project. Even though there are no new buildings being proposed as part of this project, and as such, typical LEED requirements do not apply, it is believed that this project warrants consideration because of the flood prevention attributes of the project.

Under these design conditions, it is believed that the proposed construction either meets Energy Star® requirements, LEED levels and building energy codes or they are not applicable to the type of project being proposed.

Sincerely,
BOLTON & MENK, INC.

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William R. Douglass, P.E.
Water Resources Group Manager
Iowa Reg. No.12390

cc: Lee Ann Waltzing, Belmond City Manager